## PUZZLE OF THE WEEK (4/13/2016-4/19/2016)

The series

$$
\sum_{n=0}^{\infty} \frac{2^{n}}{1+x^{2^{n}}}=\frac{1}{1+x}+\frac{2}{1+x^{2}}+\frac{4}{1+x^{4}}+\frac{8}{1+x^{8}}+\ldots
$$

converges for $|x|>1$. Find, with proof, the expression for the sum of the series.

- The only correct solution of the Puzzle of the Week \#11 was submitted by Toby Aldape. Congratulations!
- One possible solution of the Puzzle \#11 is posted online. (Look for the Puzzle of the Week announcements on the departmental web-page.)
- Solvers should include their full name and some kind of a contact information. Solutions should be submitted to Iva Stavrov in BoDine 305; email submissions are encouraged (istavrov at lclark). Solutions should be received by the end of the day on Tuesday, April 19th 2016.

